TECHNICAL DATA SHEET

A 10SB

Organic Tannin-Based Boiler Treatment

1. PRODUCT DESCRIPTION

A 10SB is a blended liquid internal boiler treatment based on organic tannin and polymeric sludge conditioning technology.

A 10SB is designed to:

• Control corrosion through tannate film formation
• Provide supplementary oxygen scavenging action
• Convert residual hardness salts into non-adherent sludge
• Improve sludge fluidity and blowdown efficiency
• Reduce risk of scale deposition
• Minimize foaming tendency by not significantly increasing alkalinity
• Working with low pressure boiler

A 10SB may be used:

• As a standalone treatment in low-pressure boilers
• In conjunction with phosphate and oxygen scavenger programs
• As part of a balanced internal boiler water treatment program

2. MECHANISM OF ACTION

A 10SB provides protection through dual mechanisms:

2.1 Corrosion Control

• Forms a protective tannate film on metal surfaces
• Enhances formation of corrosion-resistant layers
• Provides limited oxygen scavenging support

2.2 Deposit & Scale Control

• Converts residual hardness salts into mobile sludge
• Prevents crystal growth and scale adhesion
• Keeps deposits suspended for efficient removal via blowdown

This ensures clean heat transfer surfaces and improved boiler efficiency.

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3. APPLICATION & DOSAGE

Application:
Continuous internal boiler treatment.

Typical Dosage Range:

25 – 50 ml per m^3 of make-up water
(Actual dosage depends on operating conditions)

Dosage Variables:

• Feed water temperature
• Boiler load
• Blowdown rate
• Hardness carryover
• Operating pressure

Injection Method:

• Dosing pump (preferred)
• Dosing pot

For pump injection:
Dilute minimum 1:10 using softened water or condensate prior to injection.

Do not inject directly into hot boiler shell.

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4. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Form: Liquid
Appearance: Dark brown liquid
Odor: Mild
Specific Gravity @ 25°C: 1.05 – 1.15
pH (Neat): 8.5 – 10.5
Solubility: Completely soluble in water
Flammability: Non-flammable
Volatility: Non-volatile

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5. COMPATIBILITY

Material Compatible with:
• Carbon Steel
• Mild Steel
• Cast Iron
• Stainless Steel

Technical Compatible with:

• pH	10.5 – 11.5
• Alkalinity	< 700
• TDS	< 3500
• Total Hardness	< 5
• Temperature	180°C

Compatible with coordinated phosphate treatment programs.

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6. PACKAGING

Available in:

• 25 kg HDPE drums

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7. STORAGE & SHELF LIFE

Store in tightly closed original containers in a cool, dry, ventilated area.
Protect from freezing.

Shelf Life: 24 months under recommended storage conditions.